

IN THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent comprising a non-adhesive cationic metal ion crosslinking agent having three or more valences, wherein the carboxylated latex is internally added ~~or not added~~ with anionic aluminate salt or nonionic aluminum hydroxide gel.

2. (Currently Amended) The non-adhesive and durable carboxylated latex product according to claim 1, wherein the cationic metal ion crosslinking agent is an aluminum compound, a titanium compound, a zirconium compound or any combination thereof.

3. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent comprising a non-adhesive organic crosslinking agent for a carboxyl group of the carboxylated latex, wherein the carboxylated latex, wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel.

4. (Currently Amended) The non-adhesive and durable carboxylated latex product according to claim 3, wherein the non-adhesive organic crosslinking agent for the carboxyl comprises an aziridine compound, an epoxy compound, a blocked isocyanate, an oxazoline compound, a carbodiimido compound, a melamine formaldehyde resin, an ureaformaldehyde resin, an isocyanate, a phenolformaldehyde resin, a glycol, a polyol, a diamine, a polyamine, a hexamethoxymethylmelamine, a methylolacrylamide, or any combination thereof.

5. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent, ~~wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel~~ comprising a compound selected from the group consisting of glyoxals, polyamide compounds, polyamide polyurea compounds, polyamine polyurea compounds, polyamideamine polyurea compounds, polyamide polyurea glyoxal condensation reaction products, polyamideamine compounds, polyamideamine epihalohydrine condensation reaction products, polyamideamine formaldehyde condensation reaction products, polyamine epihalohydrine condensation reaction products, polyamine formaldehyde condensation reaction products, polyamine polyurea epihalohydrine condensation reaction products, polyamide polyurea formaldehyde condensation reaction products, polyamine polyurea epihalohydrine condensation reaction products, polyamine polyurea formaldehyde condensation reaction products, polyamideamine polyurea epihalohydrine condensation reaction

products, polyamideamine polyurea formaldehyde condensation reaction products, and combinations thereof, wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel.

6. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent, ~~wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel,~~ comprising a compound selected from the group consisting of monofunctional amines, monofunctional epoxy compounds, monofunctional isocyanates, monofunctional blocked isocyanates, and combinations thereof, wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel.

7. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent, ~~wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel,~~ comprising a non-adhesive sizing agent, wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel.

8. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with an external carboxyl-group blocking agent, ~~wherein the carboxylated latex is internally added with anionic~~

~~aluminate salt or nonionic aluminum hydroxide gel, comprising a non-adhesive surfactant, wherein the carboxylated latex is internally added with anionic aluminate salt or nonionic aluminum hydroxide gel.~~

9. (Currently Amended) A non-adhesive and durable carboxylated latex product with inner surface and/or outer surface treated with external carboxyl-group blocking agent according to any one of claims 1 to 8, wherein the carboxylated latex is internally added and treated with anionic aluminate salt or nonionic aluminum hydroxide gel and any one or more of a non-adhesive internal carboxyl-group blocking agent comprising a non-adhesive aziridine compound, a non-adhesive epoxy compound, a non-adhesive blocked isocyanate, a non-adhesive oxazoline compound, a non-adhesive carbodiimido compound, a non-adhesive melamineformaldehyde resin, a non-adhesive ureaformaldehyde resin, a non-adhesive isocyanate, a non-adhesive phenolformaldehyde resin, a non-adhesive glycol, a non-adhesive polyol, a non-adhesive diamine, a non-adhesive polyamine, a non-adhesive hexamethoxymethylmelamine, a non-adhesive methylolacrylamide, glycoxals, non-adhesive polyamide compounds, non-adhesive polyamide polyurea compounds, non-adhesive polyamine polyurea compounds, non-adhesive polyamideamine polyurea compounds, non-adhesive polyamide polyurea glyoxal condensation reaction products, non-adhesive polyamideamine compounds, non-adhesive polyamideamine epihalohydrine condensation reaction products, non-adhesive polyamideamine formaldehyde condensation reaction products, non-adhesive polyamine epihalohydrine condensation reaction products, non-

adhesive polyamine formaldehyde condensation reaction products,
non-adhesive polyamide polyurea epihalohydrine condensation
reaction products, non-adhesive polyamide polyurea formaldehyde
condensation reaction products, non-adhesive polyamine polyurea
epihalohydrine condensation reaction products, non-adhesive
polyamideamine polyurea epihalohydrine condensation reaction
products, non-adhesive polyamideamine polyurea formaldehyde
condensation reaction products, non-adhesive monofunctional
amines, non-adhesive monofunctional epoxy compounds, non-
adhesive monofunctional isocyanates and non-adhesive
monofunctional blocked isocyanates, a non-adhesive sizing agent,
beta-naphthalene-sulfonic acid formalin condensates,
alkylnaphthalene-sulfonic acid formaline condensates and/or
alkylmethyl taurinates ~~organic crosslinking agent, non adhesive~~
~~glyoxals, polyamide compounds, polyamide polyurea compounds,~~
~~polyamine polyurea compounds, polyamideamine polyurea compounds,~~
~~polyamide polyurea glyoxal condensation reaction products,~~
~~polyamideamine compounds, polyamideamine epihalohydrine~~
~~condensation reaction products, polyamideamine formaldehyde~~
~~condensation reaction products, polyamine epihalohydrine~~
~~condensation reaction products, polyamine formaldehyde~~
~~condensation reaction products, polyamine polyurea~~
~~epihalohydrine condensation reaction products, polyamide~~
~~polyurea formaldehyde condensation reaction products, polyamine~~
~~polyurea epihalohydrine condensation reaction products,~~
~~polyamine polyurea formaldehyde condensation reaction products,~~
~~polyamideamine polyurea epihalohydrine condensation reaction~~
~~products, polyamideamine polyurea formaldehyde condensation~~
~~reaction products, non adhesive monofunctional amines,~~

~~monofunctional epoxy compounds, monofunctional isocyanates,
monofunctional blocked isocyanates, a non-adhesive sizing agent,
 β -naphthalene sulfonic acid formalin condensate,
alkylnaphthalene sulfonic acid formalin condensate, or
alkylmethyl taurinate.~~

10. (Canceled)

11. (Currently Amended) The non-adhesive and durable carboxylated latex product according to any one of claims 1 to 9, wherein the carboxylated latex comprises an acrylonitrile-butadiene rubber, a styrene-butadiene rubber, a chloroprene rubber or a methyl methacrylate-butadiene rubber.

12. (Currently Amended) The non-adhesive and durable carboxylated latex product according to any one of claims 1 to 9, wherein the latex product is a dipped product.

13. (Currently Amended) The non-adhesive and durable carboxylated latex product according to any one of claims 1 to 9 wherein the dipped product is a fingerstall, a glove, a balloon, or a condom.

Claims 14-15. (Canceled)

16. (Withdrawn) A method for producing a non-adhesive carboxylated latex product according to any one of claims 1 to 15, characterized is that one or both surfaces of the latex product are brought into contact with one or more of the

carboxyl-group blocking agent solutions defined in any of claims 8 to 15 to attach the carboxyl-group blocking agent to the latex surface.

17. (Withdrawn) A method for producing a non-adhesive carboxylated latex dip product, characterized in that there is used a solution of a mono-or bi-valent external coagulant for carboxylated latex which is mixed with or dissolved in one or more of the carboxyl group blocking agents defined in any of claims 8 to 15.

18. (Withdrawn) A method for producing a non-adhesive carboxylated latex dip product, characterized in that a dipping former is dipped and deposited with one or more of the carboxyl-group blocking agents defined in claims 8 to 15, dipped and deposited with a mono- or bi-valent external coagulant, and then dipped in a latex.

19. (Withdrawn) A method for producing a non-adhesive carboxylated latex dip product, characterized in that a dipping former is dipped and deposited with one or more of the carboxyl-group blocking agents defined in any one of claims 8 to 15, then dipped in a latex liquid to form a latex film, further dipped in a mono- or bi-valent external coagulant solution, and subsequently dipped in the carboxylated latex again.

20. (Withdrawn) A method for producing a non-adhesive carboxylated latex dip product, characterize in that a dipping former is dipped in a mixture of one or more of the carboxyl-

group blocking agents defined in any of claims 8 to 15 and a carboxylated latex stable to the blocking agent to form a latex film, further dipped in a mono- or a bi-valent external coagulant solution, and thereafter dipped in the carboxylated latex liquid again.

21. (Withdrawn) A method for producing a non-adhesive carboxylated latex dip product, characterized in that a dipping former is dipped in a mono- or bi-valent coagulant suspension for carboxylated latex which contains, as the carrier, fine powder of one or more of the carboxyl-group blocking agents defined in any of claims 8 to 15 that is hardly soluble or insoluble in water or alcohol, and subsequently dipped in the carboxylated latex liquid.

Claims 22-23. (Cancelled)

24. (Withdrawn) A method for producing a non-adhesive fingerstall with wound mouth according to claim 23, characterized in that an adhesive portion is provided on the upper part at the time of dipping and then winding is conducted.

25. (Withdrawn) A method for producing a non-adhesive fingerstall according to claim 7 or claim 22, characterized in that the outside surface is treated with a carboxyl group blocking agent after a wound mouth is provided.